STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number:

Source:

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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual cPAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street. Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

F2222	
ERROR DETECTE	
ATTH: NEW RULES	CASES: PLEASE DISRECGARD THE COMMERCE TO C
Wrapped N	VELCICI TA SERVICE TO
Wrapped A	welcies The number/text at the end of each line "wrapped" down to the next line. This may occur if your file prevent "wrapping."
2 Invalid Line	Appende.
	Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
JMisaligned A	mino The numbering reader and the spaces.
Numbering	mino The numbering under each 5" amino acid is misaligned. Do not use tab codes between numbers:
Non-ASCII	The submitted file
- ·	The submitted file was not saved in ASCII(DOS) icel, as required by the Sequence Rules. Please
SVariable Leng	h Scourness
	cach n or Xaa can got a or Xaa's representing more than one residue. Door
GPatentin 2.0	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing
"bug"	A "bug" in Patentin version 2.0 has caused the case.
·	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from anino acid previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to be missing from anino acid previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to Artificial or Unknown sequences.
) <u>c</u>	sequences.
Skipped Sequent (OLD RULES)	es Sequence(s)
(OLD KOLES)	(2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown) (2) SEQUENCE CHARACTERISTICS (Do not insert any sublicadings under this licading) (a) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES i response to include the skipped sequences. Sequence(s)
8 Skipped Sequence	Segment of Scholing 12, response to include the Wilbert Server
(NEW RULES)	Sequence(s) missing If intentional please insentite following lines for each stapped sequence: (210) sequence id number
	Sequence(s)
Use of n's or Xaa's	
(NEW RULES)	
	Per 1 823 of Sequence Rules, use of <220 + <223 > 15 MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain location of n or Xaa and which seed a
10 Invalid <213>	section, please captain location of n or Xaa, and which seed a saic piesent
Response	In <220> to <221> section, please explain location of n or Xaa, and which residue n or Xaa represent Per 1.82) of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence to SATIFICIAL Sequence (Sequence Sequence) <220> <223> section is required when <213> responses are Unknown.
	scientific name (Genus) species) <220 > <221 > responses are Unknown, Artificial Sequence or is Artificial Sequence or is required when <213 > response is Unknown.
	A Vulticial Seducuce (ST) section is reduined when STI > restinguished in
11 Usc of <270,	Scaucherter
	Use of \$110s to \$233 this still the \$110s feature and associated as
	Sequence(s) Use of <220> to <223> is MANDA FORY if <211> "Organism" response is "Artificial Sequence" or (See "Federal Register," Organism y a section (See "Fe
	"Unknown." Please explain source of genetic material in <20> to <22> to <22> section. (See "Federal Register," 0001/1998, Vol. 63, No. 104, pp. 2004, 123, pp. 400.
13Patentin 2.0	778, VOI 63, No. 104 on 29631 333 46
"bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file isting). Instead, please use "City of Sequence Rules of Patentln version 2.0. This causes a corrupted file.
	isting). Instead at
	The Manager of any other mount
Misusc of nX22	n" can only represent a single nucleotide: "Xaa" can only represent a single amino acid
	nucleotide: "Xaa" can only represent a single amino acid
	AMC - 0:

AMC - Biotechnology Systems Branch - 09/09/2003



IFWO

RAW SEQUENCE LISTING DATE: 02/04/2005
PATENT APPLICATION: US/10/821,231A TIME: 15:27:18

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\02042005\J821231A.raw

1 <110> APPLICANT: Dongmao Zhang 3 <120> TITLE OF INVENTION: Process and Apparatus for Segregation and Testing by Spectral Analysis of 4 Solid Deposits Derived From Liquid Mixtures 6 <130> FILE REFERENCE: 12264/017 8 <140> CURRENT APPLICATION NUMBER: 10/821231A 9 <141> CURRENT FILING DATE: 2004-04-08 11 <150> PRIOR APPLICATION NUMBER: us 60/462083 12 <151> PRIOR FILING DATE: 2003-04-11 14 <150> PRIOR APPLICATION NUMBER: us 60/462472 15 <151> PRIOR FILING DATE: 2003-04-11 17 <150> PRIOR APPLICATION NUMBER: us 60/490057 18 <151> PRIOR FILING DATE: 2003-07-25 20 <150> PRIOR APPLICATION NUMBER: us 60/554701 Does Not Comply 21 <151> PRIOR FILING DATE: 2004-03-19 Corrected Diskette Needed 23 <150> PRIOR APPLICATION NUMBER: us 60/551311 24 <151> PRIOR FILING DATE: 2004-03-08 26 <160> NUMBER OF SEO ID NOS: 1 28 <170> SOFTWARE: PatentIn version 3.3

ERRORED SEQUENCES

30 <210> SEQ ID NO: 1 31 <211> LENGTH: 536 32 <212> TYPE: PRT 33 <213> ORGANISM: Homo sapiens 35 <400> SEQUENCE: 1 37 Met Gly Ser Asn Lys Ser Lys Pro Lys Asp Ala Ser Gln Arg Arg Arg E--> 38 1 10 E--> 39 15 42 Ser Leu Glu Pro Ala Glu Asn Val His Gly Ala Gly Gly Gly Ala Phe 20 E--> 43 E--> 44 30 47 Pro Ala Ser Gln Thr Pro Ser Lys Pro Ala Ser Ala Asp Gly His Arg 51 Gly Pro Ser Ala Ala Phe Ala Pro Ala Ala Glu Pro Lys Leu Phe E--> 52 55 Gly Gly Phe Asn Ser Ser Asp Thr Val Thr Ser Pro Gln Arg Ala Gly E--> 56 65 E--> 57 80 60 Pro Leu Ala Gly Gly Val Thr Thr Phe Val Ala Leu Tyr Asp Tyr Glu E --> 61E--> 62 95

PIS See Tent 1 00 error Summer Chapt RAW SEQUENCE LISTING DATE: 02/04/2005
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Output Set: N:\CRF4\02042005\J821231A.raw

65 Ser Arg Thr Glu Thr Asp Leu Ser Phe Lys Lys Gly Glu Arg Leu Gln E--> 66 100 E--> 67 110 70 Ile Val Asn Asn Thr Glu Gly Asp Trp Trp Leu Ala His Ser Leu Ser 125 E--> 71 115 74 Thr Gly Gln Thr Gly Tyr Ile Pro Ser Asn Tyr Val Ala Pro Ser Asp 135 78 Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys Ile Thr Arg Arg Glu E--> 79 145 150 E--> 80 160 83 Ser Glu Arg Leu Leu Asn Ala Glu Asn Pro Arg Gly Thr Phe Leu 165 E--> 85 175 88 Val Arg Glu Ser Glu Thr Thr Lys Gly Ala Tyr Cys Leu Ser Val Ser 180 E--> 89 E--> 90 190 93 Asp Phe Asp Asn Ala Lys Gly Leu Asn Val Lys His Tyr Lys Ile Arg 205 195 E--> 97 Lvs Leu Asp Ser Gly Gly Phe Tyr Ile Thr Ser Arg Thr Gln Phe Asn E--> 98 210 215 101 Ser Leu Gln Gln Leu Val Ala Tyr Tyr Ser Lys His Ala Asp Gly Leu E--> 102 225 E--> 103 240 106 Cys His Arq Leu Thr Thr Val Cys Pro Thr Ser Lys Pro Gln Thr Gln E--> 108 255 111 Gly Leu Ala Lys Asp Ala Trp Glu Ile Pro Arg Glu Ser Leu Arg Leu E--> 112 260 E--> 113 270 116 Glu Val Lys Leu Gly Gln Gly Cys Phe Gly Glu Val Trp Met Gly Thr 285 E--> 117 275 120 Trp Asn Gly Thr Thr Arg Val Ala Ile Lys Thr Leu Lys Pro Gly Thr 295 124 Met Ser Pro Glu Ala Phe Leu Gln Glu Ala Gln Val Met Lys Lys Leu E--> 125 305 310 E--> 126 320 129 Arg His Glu Lys Leu Val Gln Leu Tyr Ala Val Val Ser Glu Glu Pro E--> 130 325 E--> 131 335 134 Ile Tyr Ile Val Thr Glu Tyr Met Ser Lys Gly Ser Leu Leu Asp Phe 3/50 138 Leu Lys Gly Glu Thr Gly Lys Tyr Leu Arg Leu Pro Gln Leu Val Asp E--> 139 36/5 142 Met Ala Ala Gln Ile Ala Ser Gly Met Ala Tyr Val Glu Arg Met Asn 370 375 E--> 143 146 Tyr Val His Arg Asp Leu Arg Ala Ala Asn Ile Leu Val Gly Glu Asn E--> 147 385 390 E--> 148 400 151 Leu Val Cys Lys Val Ala Asp Phe Gly Leu Ala Arg Leu Ile Glu Asp

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PATENT APPLICATION: US/10/821,231A

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Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\02042005\J821231A.raw

E--> 152 410 E--> 153 415 156 Asn Glu Tyr Thr Ala Arg Gln Gly Ala Lys Phe Pro Ile Lys Trp Thr 430 420 160 Ala Pro Glu Ala Ala Leu Tyr Gly Arg Phe Thr Ile Lys Ser Asp Val 445 E--> 161 435 164 Trp Ser Phe Gly Ile Leu Leu Thr Glu Leu Thr Thr Lys Gly Arg Val 460 450 455 E--> 165 168 Pro Tyr Pro Gly Met Val Asn Arg Glu Val Leu Asp Gln Val Glu Arg E--> 169 465 E--> 170 480 173 Gly Tyr Arg Met Pro Cys Pro Pro Glu Cys Pro Glu Ser Leu His Asp E--> 174 E--> 175 495 178 Leu Met Cys Gln Cys Trp Arg Lys Glu Pro Glu Glu Arg Pro Thr Phe 500 E--> 179 E--> 180 510 183 Glu Tyr Leu Gln Ala Phe Leu Glu Asp Tyr Phe Thr Ser Thr Glu Pro 525 520 515 E--> 184 187 Gln Tyr Gln Pro Gly Glu Asn Leu E--> 188 530 535

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/821,231A

DATE: 02/04/2005 TIME: 15:27:19

Imput Set : A:\PTO.FG.txt

output Set: N:\CRF4\02042005\J821231A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3,38,43,48,52,56,61,66,71,75,79,84,94,98,102,107,117,121 Seq#:1; Line(s) 125,130,135,139,143,147,152,157,161,165,169,174,179,184 VERIFICATION SUMMARY

DATE: 02/04/2005

PATENT APPLICATION: US/10/821,231A

TIME: 15:27:19

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\02042005\J821231A.raw

L:38 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1

M:332 Repeated in SeqNo=1

L:97 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1